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|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/817,090 | SAKIYAMA, RYOJI | |
| | Examiner | Art Unit | |
| | Hoai-An D. Nguyen | 2858 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to ____.
2. ☒ The allowed claim(s) is/are 1-9.
3. ☐ The drawings filed on ____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date ____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date <u>04/02/04</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other ____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul D. Greeley (Reg. # 31, 019) at 203-327-4500 on May 5, 2005. The purpose of the examiner's amendment was to correct informalities in the specifications, drawings and claims.

2. The application has been amended as follows:

IN THE CLAIMS:

In claim 1:

- Line 1: "a narrow-band amplifier comprising" has been deleted.
- Line 10: "signals" after "wave" has been replaced with -- signal --.
- Line 12: "signals" after "wave" has been replaced with -- signal --.
- Line 14: "signals" after "wave" has been replaced with -- signal --.
- Line 16: "signals" after "wave" has been replaced with -- signal --.

IN THE DRAWINGS:

The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

- In FIG.1: "580" on the top right has been replaced with -- 560 --.

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- All empty boxes such as 310, 400, 510, 520, 530, 540, 620, 630, 660, 670, 680, 700, 920, 930, 951-954 and 1000 in FIGS. 1-4 need suitable descriptive legends (see MPEP §608.02 [R-2], Section V: DRAWING STANDARDS, item (n) and (o)).

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

IN THE SPECIFICATIONS:

- Page 19, line 19: “900” has been replaced with -- 910 --.

REASONS FOR ALLOWANCE

3. The following is an examiner’s statement of reasons for allowance:

With regard to claims 1 and 5, the prior art does not teach or render obvious the combinations as claimed narrow-band amplifier and claimed impedance measuring apparatus including:

- A narrow-band amplifier comprising a quadrature detector, integrators, a vector modulator, and two pairs of signal sources wherein each signal source in each pair is orthogonal to each other; and
- A controller controls the signal sources before the time when they are about to be synchronized by the pre-determined wait times so that the times when the output signals of signal sources are updated are all synchronized.

With regard to claim 9, the prior art does not teach or render obvious the combinations as claimed impedance measuring apparatus including:

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- A narrow-band amplifier comprising a quadrature detector, integrators, a vector modulator, and two pairs of signal sources wherein each signal source in each pair is orthogonal to each other; and
- A control means adjusts the phase difference between first sine-wave signals and second sine-wave signals by controlling the first signal source and adjusts the phase difference between first cosine-wave signals and second cosine-wave signals by controlling first signal source.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

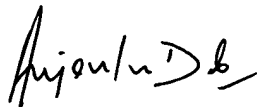
CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoai-An D. Nguyen whose telephone number is 571-272-2170. The examiner can normally be reached on M-F (8:00 - 5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



ANJAN DEB
PRIMARY EXAMINER

HADN

Hoai-An D. Nguyen
Examiner
Art Unit 2858

HADN